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(54) SLURRY FOR CASTING AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To increase the rate of sedimentation of a slurry for casting contg. powdery ceramic stock, a binder, a dispersant and curdlan and to improve productivity at the time of casting by dissolving the curdlan by a specified method.

SOLUTION: An alkali agent such as ammonia is added to a slurry contg. powdery ceramic stock such as Si_3N_4 , AlN , Y_2O_3 or Al_2O_3 , a binder such as saccharides, a dispersant such as ammonium polycarbonate and curdlan (β -1,3- glucan) to adjust the slurry to $\square\text{pH}9$, preferably 9-12, especially preferably 9.5-11 and the curdlan is dissolved. Casting is carried out in a short time, density distribution in a cast body is made uniform and cracking at the time of drying and firing is suppressed.

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